

# Electric Charge and Static Electricity

## BEFORE YOU READ

After you read this section, you should be able to answer these questions:

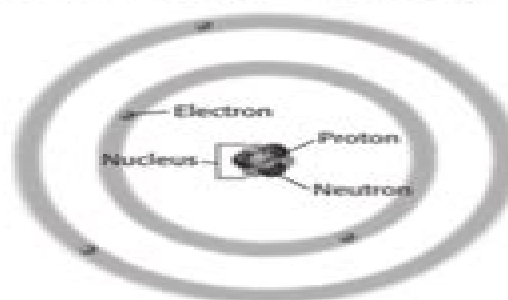
- What is an electric charge?
- How can an object become charged?
- How are conductors different from insulators?
- What are static electricity and electric discharge?

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PS 3a

## What Is an Electric Charge?

Almost everywhere you go, you see electricity at work. Electricity starts our cars and lights our houses. It makes refrigerators and toasters run. Lightning flashes in the sky because of electricity. It can even make your hair stand on end.

To understand this amazing kind of energy, you need to learn about atoms and charge. All matter is made up of very small particles called atoms. Atoms are made of even smaller particles. The center, or *nucleus*, of every atom contains protons and neutrons. Protons have a positive charge and neutrons have no charge. Particles called electrons move around the nucleus. They have a negative charge. ☑



Protons and neutrons make up the center of the atom, the nucleus. Electrons are found outside the nucleus.

## CHARGES EXERT FORCES

Charge is a physical property. An object can have a positive charge, a negative charge, or no charge at all. Charged objects exert a *force*—a push or a pull—on other charged objects.

## STUDY TIP

**Reading Organizer** As you read this section, write an outline about electric charge. Use the vocabulary and italicized words in the outline.

## READING CHECK

**1. Name** What are the two kinds of charged particles in atoms?

## TAKE A LOOK

**2. Identify** What kind of particle has a positive charge? What kind has a negative charge? In the figure, put a plus sign (+) next to the particle with a positive charge. Put a minus sign (−) next to the particle with a negative charge.

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